

## Product datasheet for **RR208242**

### Ctsf (NM\_001034110) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ctsf (NM_001034110) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ctsf
Synonyms:	MGC124702
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR208242 representing NM\_001034110  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGCTCCTGTGTCAGCTTTTGTGGCTGTTGACGCTGATCGCGACCGTGGTCCTGAGCCAGTCCCTG  
 CCAAGCCCTGGGCGGATGACGAGCAAGCCTGGAGCCTGTCTCCAGGAGCTGCTGGCGCCCGCCGCTT  
 CGCGCTGGACATGTACAATTACGGCCGACTGCGGTGACAAGGGCCGTGCTAGGGGCGGTACACGGGCGC  
 GTCGGGGGGCCGGCCGGGGCTCTCTGTTCTCCCTGGAAGCCACATTAGAGGAGCCACCTTGCAATGATC  
 CCCTGGTGTGCCTGCACCCTGAGACGAAGAAAACAATGCTCTGCAGTTTTGAAGTCTGGAAGAGCTAAA  
 AGAACACTTGCTGCTGAGGAAGGACTGTAGCCAGTGAATGCCAAGTTACAGAGTCTGGGAACGAGACC  
 TTCGAGCATTCTTCCAATGTTGGACAAGGATCCCCTGCCCCAGGACTTTTCTGTGAAGATGGCTACAC  
 TCTTCAAGGACTTCATGACTACCTATAACCGGACTTACGAATCAAGGGAAGAAGCCAGTGGCGCTTAC  
 TGCTTTTCCAGAAATATGATACGAGCGCAGAAGATTCAGGCCCTGGACCGTGGCACAGCTCAGTATGGG  
 ATCACCAAGTTCACTGACCTCACAGAGGAAGAGTTCACACCATCTACCTGAATCCCCTCTACAAAAGG  
 AGTCTGGCGGGAAGATGAGTCTAGCCAAGTCCATAAAATGATCTCGCCCCACCTGAATGGGACTGGAGAA  
 GAAAGGGGCTGTCACTGAAGTGAAGGACCAGGGCATGTGTGGCTCCTGTGGCCTTCTCTGTACAGGC  
 AACGTGGAGGGCCAGTGGTTCTGAACCGGGGACTCTGCTCTCCCTGTGAGCAGGAGCTTTTGGATT  
 GTGACAAGATGGACAAGGCTGCATGGGTGACTGCCCTCCAACGCTACACAGCCATAAAGAATTTGGG  
 AGGGCTGGAGACAGAGGATGACTATGGTACCAGGGCCAGTTCAAGCCTGTAACCTCTCAACACAGATG  
 GCAAAAGTCTACATCAACGATTCAGTGGAGCTGAGCCGGGATGAGAACAAGATAGCAGCCTGGCTGGCC  
 AGAAAGGACCGATCTCAGTTGCCATTAATGCCTTCGGCATGCAGTTCTATCGCCATGGGATGCTACCC  
 ATTCCGGCCCTCTGCAGCCCTTGGTTTCATCGACCACGCTGTGTTGCTGGTGGGCTATGGAACCGCTCC  
 AACATTCTTACTGGCCATCAAGAACGCTGGGGCAGGACTGGGGTGAAGAGGTTACTACTACTTAT  
 ATCGTGGTCCGGGGCTGTGGTGAATACCATGGCCAGTTCGGCAGTGGTGAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR208242 representing NM\_001034110  
 Red=Cloning site Green=Tags(s)

MALLLQLLWLLTLIATVVLSPVPAKPWADDEQAWLSLSSQELLAPARFALDMYNYGRTAVTRAVLGAVHGR  
 VRRAGRSLFSLEATLEPPCNDPLVCLHPETKKTMLCSFEVLEELKEHLLLRKDCSPVNAKVTESGNET  
 FRAFLPMLDKDPLPQDFSVKMATLFKDFMTTYNRTYESREEAQWRLTVFARNMIRAQKIQLDRGTAQYG  
 ITKFSDLTEEFHTIYLNPLLQKESGGKMSLAKSINDLAPPEWDWRKKGAVTEVKDQGMCGSCWAFSVTG  
 NVEGQWFLNRGTLLSLSEQELLDCKMDKACMGGPLSNAYTAIKNLGGLETEDDYGYQGHVQACNFSTQM  
 AKVYINDSVELSRDENKIAAWLAQKGPISVAINAFGMQFYRHGIAHPFRPLCSPWFIDHAVLLVGYGNRS  
 NIPYWAIKNSWGRDWGEEGYLYRSGSACGVNTMASSAVVN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

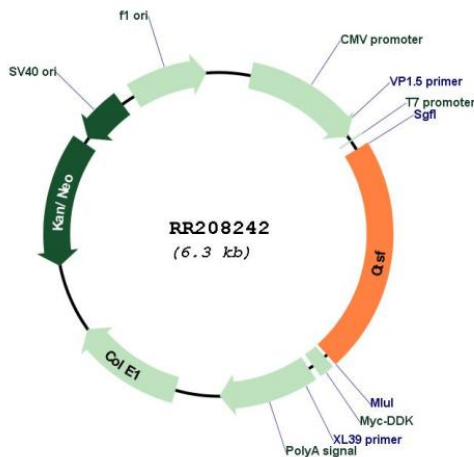
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001034110

ORF Size: 1386 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_001034110.1](#), [NP\\_001029282.1](#)

**RefSeq Size:** 1922 bp

**RefSeq ORF:** 1389 bp

**Locus ID:** 361704

**Cytogenetics:** 1q43

**MW:** 51.8 kDa